



Third State of Good Repair Roundtable

Transit Asset Inventory Development & Integration



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Metro St. Louis

- Provides transit service for the St. Louis metropolitan area – including the City of St. Louis, St. Louis County in Missouri and portions of several southern Illinois counties
 - In FY11, annual ridership for the system was over 47 million trips.
- MetroLink operates 87 light rail vehicles (LRVs) on two lines
 - 37 Stations along 46 miles of alignment
 - Two LRV maintenance facilities
- MetroBus operates 411 buses
 - MetroBus services 60 routes operating in Missouri and 17 routes operating in Illinois
 - Three bus maintenance facilities
- Metro Call-A-Ride, a Paratransit van system
 - A separate facility in Missouri houses the bus maintenance and paratransit services
- Metro Operates
 - 300 nonrevenue vehicles
 - Headquarters facility, as well as additional parking and other facilities

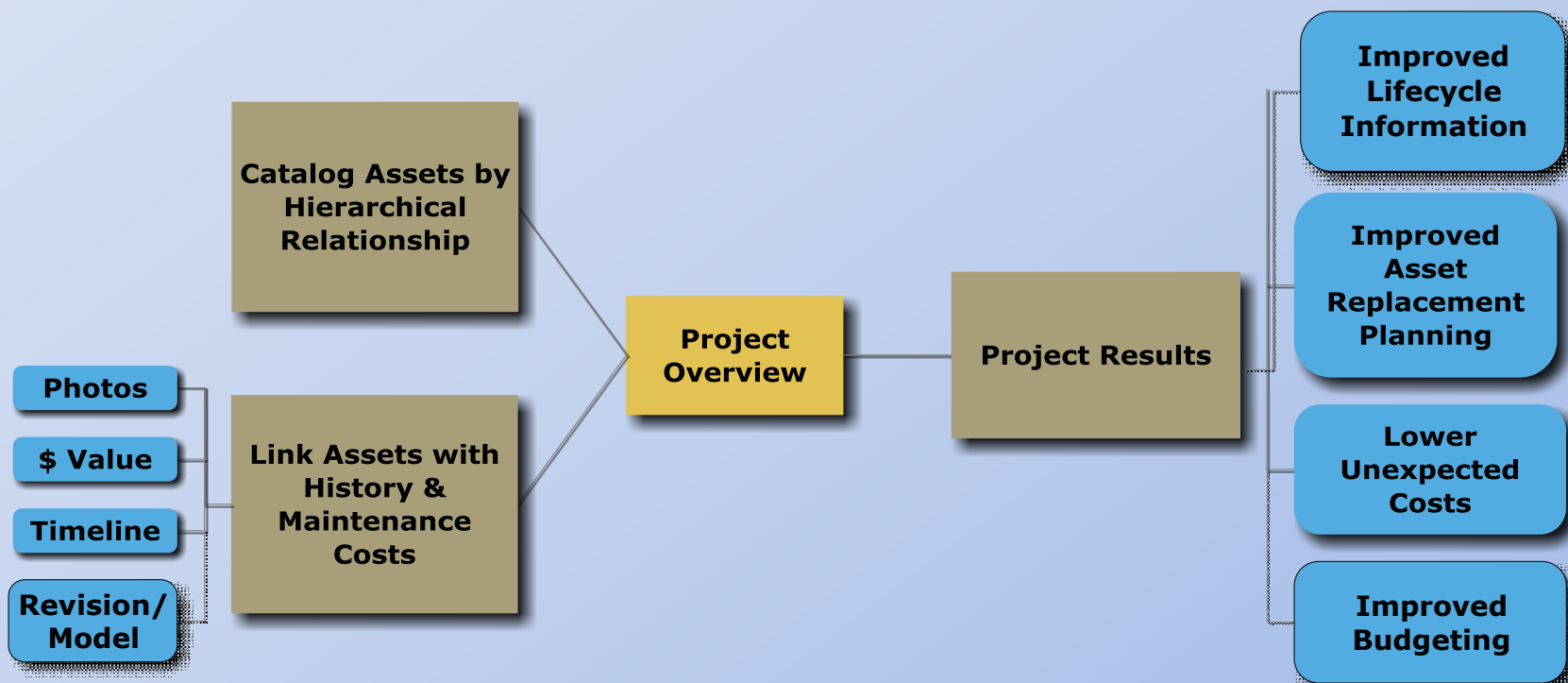
Transit Asset Inventory Development & Integration



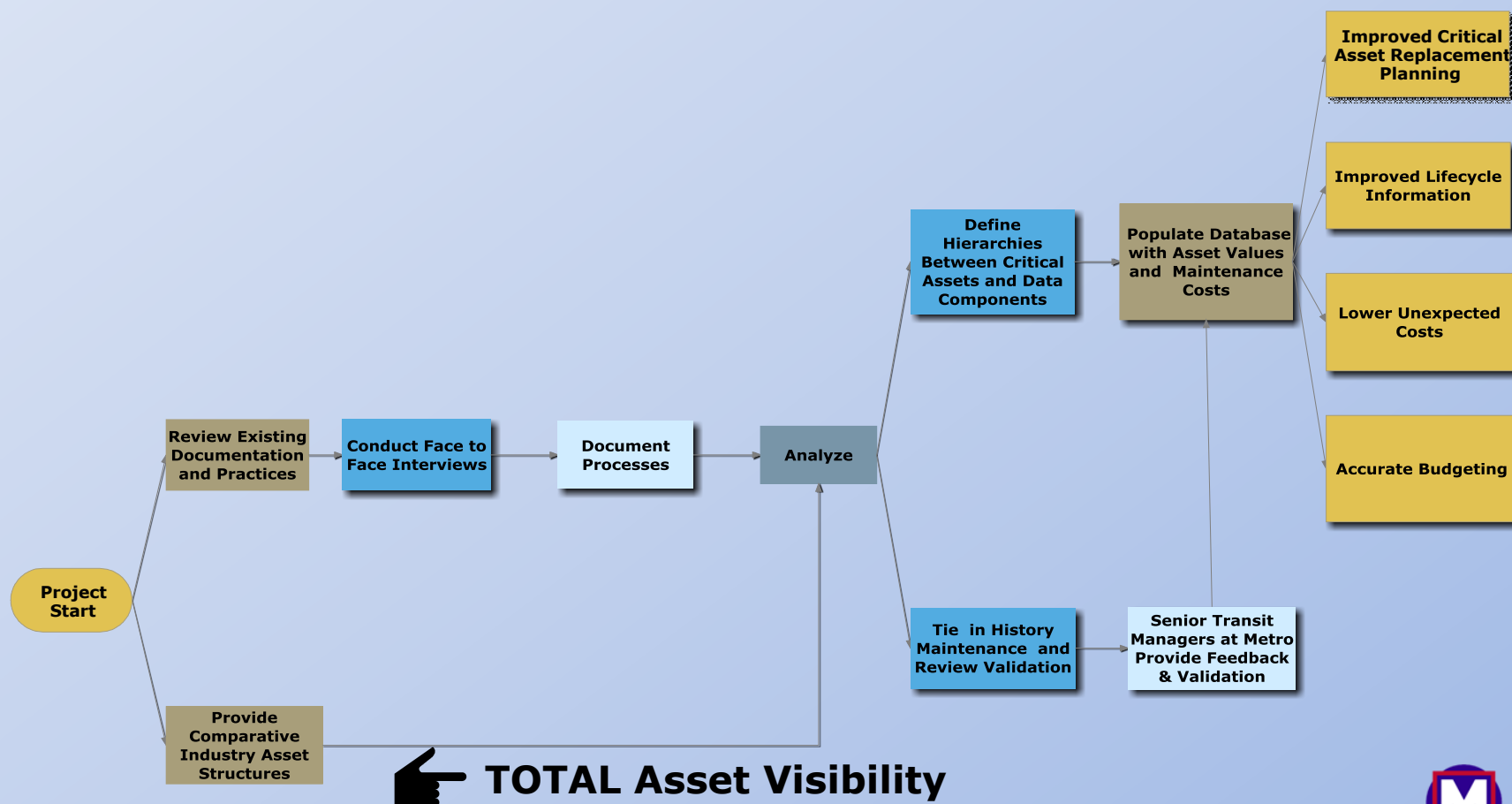
Project Overview

- Project Objectives and Goals
 - This research project seeks to comprehensively address how urban rail transit agencies can leverage data in their maintenance management systems to build asset inventories for higher-level analysis to optimize investments in urban bus/rail capital assets
 - The team will also ensure hierarchical structures are considered and whole-vehicle and system-level information is captured. In addition, life-cycle information will be captured to support reliability improvements, asset warranties and reinvestment requirements

Project Overview Cont.



Project Collaboration



TOTAL Asset Visibility

Project Deliverables/End Products

- Provide a draft reference document defining recommended industry-integrated standard asset inventory structures, data elements, and hierarchical relationships.
- Document and illustrate how larger capital items are related through the proposed hierarchical relationships to data recorded in maintenance management systems

Benefits to Transit Agencies

- Documented process that guides transit agency's decisions on how to leverage data in their Management Information System to optimize investments in urban bus/rail capital assets
- Define a process to develop a comprehensive list of critical assets and the key sub-components required for SGR data reporting
 - Including visibility of bus, rail and all critical fixed assets such as bridges, rail crossings, and operations/maintenance facilities
- Develop a complete and accurate record reflecting the value and condition of assets throughout their lifecycle
- Comprehensive view of critical asset throughout its lifecycle
- Total Asset Visibility

Asset Inspection and Maintenance System (AIMS)

Metrolink Structure Directory	
Group	
Mile Post	15.40 to 16.25
Name	Eads Bridge & Piers
Maps	Google Bing



Structure Files

- [1990 Existing Plans](#)
- [2002 Repair Plans \(As-Built\)](#)
- Maintenance/Repair History
- [Photographs](#)

Evaluation Reports

- [2010 Inspection Report/Database](#)
- [2009 Inspection Report](#)
- [2008 Inspection Report/Database](#)
- [2007 Inspection Report/Database](#)
- [2006 Inspection Report/Database](#)
- [2005 Inspection Report/Database](#)
- [1999 Inspection Report](#)

Structure Specific Files



Asset Inspection and Maintenance System (AIMS)

http://metroas02/gissubstructures/ - Windows Internet Explorer provided by METRO

http://metroas02/gissubstructures/

File Edit View Favorites Tools Help

★ Favorites Free Hotmail Metro FootPrints Service Desk Metro Oracle Sign On page MetroWeb Upgrade Your Browser

http://metroas02/gissubstructures/

Page Safety Tools ? >>

Metrolink Structures Master List Help
Logged in as METRO\MLEPF

Results

Map Contents

- ☒ metrolink
 - ☒ Station Name Anno
 - ☒ Structure Mile Post Anno
 - ☒ Structures 2009
 - ☒ Mile Markers
 - ☒ Auxiliary_Structures
 - Click to expand or collapse
 - ☐ MetroFacilities
 - ☐ Future Extensions
 - ☒ Metrolink Routes
 - ☒ Schematic Areas
 - ☒ Metrolink Sections
 - ☒ Base Map

0 1 2 3 4 Miles

2284119.438, 763296.257

Local intranet 100%

Start MetroWeb - Applications ... http://metroas02/gis... 10:24 AM

Asset Inspection and Maintenance System (AIMS)

- AIMS provides a single point to obtain asset and maintenance and inspection data for all Metrolink structures
- Metro applies an industry condition rating
- Prioritize capital investment based on the most critical system need
- Developed in 2008
 - Metro developed and managed
 - Currently has Metrolink systems structures
 - Will add all stations to AIMS
- Data from this project will feed hierarchical break down for structures to this database

Current Project Status

- Kick-off meeting
- Developed detailed work plan
- Conducting interviews with all Metro departments involved with asset management
- Reviewing and analyzing all management/maintenance information systems
- Reviewing existing Maintenance of Way data and defining the process

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